

01/16/04 IDS



PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application No.	Unassigned
				Filing Date	Herewith
				First Named Inventor	Heller, Jonathan
				Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	1	Of	4	Attorney Docket No.	29191.706.201

U.S. PATENT DOCUMENTS					
Examiner's Initials	Cite No. 1	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
RA		US-6,068,749	5/30/00	Karger et al.	
		US-5,872,010	2/16/99	Karger et al.	
		US-5,917,184	6/29/99	Carson et al.	
		US-5,958,202	9/28/99	Regnier et al.	
		US-6,375,817	4/23/02	Taylor et al.	
		US-6,175,112	1/16/01	Karger et al.	
		US-6,342,142	1/29/02	Ramsey et al.	
		US-6,231,737	5/15/01	Ramsey et al.	
		US-6,033,546	3/7/00	Ramsey	
		US-6,358,692	3/19/02	Jindal et al.	
		US-5,856,671	1/5/99	Henion et al.	
		US-6,207,954	3/27/01	Andrien, Jr. et al.	
		US-6,139,734	10/31/00	Settlage, et al.	
		US-5,245,186	9/14/93	Chait et al.	
		US-5,045,694	9/3/91	Beavis et al.	
		US-4,977,320	12/11/90	Chowdhury et al.	
		US-6,318,970	11/20/01	Backhouse	
		US-6,368,562	4/9/02	Yao	
		US-5,993,633	11/30/99	Smith et al.	
		US-6,187,190	2/13/01	Smith et al.	
		US-6,107,628	8/22/00	Smith et al.	
		US-5,545,304	8/13/96	Smith et al.	
		US-5,833,861	11/10/98	Afeyan et al.	
		US-5,952,653	9/14/99	Covey et al.	
EXAMINER SIGNATURE	/Ritesh Agrawal/			DATE CONSIDERED	01/23/2007

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Attorney Docket No. 29191.706.201

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		Number-Kind Code ² (if known)			
RA		US-5,393,975	2/28/95	Hail et al.	
		US-6,322,682	11/27/01	Arvidsson et al.	
		US-6,379,791	4/30/02	Schneider et al.	
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		US-4,483,885	11/20/84	Chait et al.	
		US-4,443,319	4/17/84	Chait et al.	
		US-5,599,432	2/4/97	Manz et al.	
		US-5,296,114	3/22/94	Manz	
		US-6,086,243	7/11/00	Paul et al.	
		US-6,091,502	7/18/00	Weigl et al.	
		US-6,159,739	12/12/00	Weigl et al.	
		US-6,277,641	8/21/01	Yager	
		US-5,624,539	4/29/97	Ewing et al.	
		US-5,358,618	10/25/94	Ewing et al.	
		US-6,284,113	9/4/01	Bjornson et al.	
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		US-6,240,790	6/5/01	Swedberg et al.	
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		US-2002/0039747	4/4/02	Lubman et al.	
		US-2002/0054289	5/9/02	Thibault et al.	
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		US-2002/0041827	4/11/02	Yager et al.	
		US-2001/0014461	8/16/01	Hutchens et al.	
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		Country Code ² - Number ³ - Kind Code ³ (if known)				
RA		WO 00/65472	11/2/00	Ringold et al.		
RA		WO 02/06829	1/24/02	Hitt et al.		
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OTHER PRIOR ART - NON PATENT RELATED DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T ²
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		GUYON, I, et al. "An introduction to variable and feature selection". <i>JMLR</i> , (2003), 1:1-48.	
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OTHER PRIOR ART - NON PATENT RELATED DOCUMENTS					
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				HAYES, Roger N., et al. "Collision-Induced Dissociation". <i>Methods in Enzymology</i> , (1990), Vol. 193, pages 237-263	
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PTO/SB/08A (08-03)

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				Application Number	10/760,100
				Filing Date	January 16, 2004
				First Named Inventor	Jonathan C. HELLER et al.
				Art Unit	1641
				Examiner Name	Unassigned
Sheet	1	of	6	Attorney Docket Number	29191-707.501

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
RA		US-5,227,471	07-13-1993	Wright, Jr.	
		US-5,314,996	05-24-1994	Wright, Jr.	
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		US-2003/0228639-A1	12-11-2003	Wright et al.	
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		US-2004/0018519-A1	01-29-2004	Wright, Jr.	
		US-2004/0029194-A1	02-12-2004	Parish et al.	
		US-2004/0043436-A1	03-04-2004	Vlahou et al.	
Examiner Signature	/Ritesh Agrawal/			Date Considered	01/23/2007

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		Country Code ² - Number ³ - Kind Code ⁴ (if known)				
RA		WO-95/25281-A1	09-21-1995	Univ. of Washington		
		WO-01/25791-A2	04-12-2001	Ciphergen Biosystems, Inc.		
		WO-01/36977-A2	05-25-2001	Matritech, Inc.		
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		WO-03/91695-A2	11-06-2003	Johns Hopkins Univ.		
		WO-03/97799-A2	11-27-2003	Eastern Virginia Medical School		
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NON PATENT LITERATURE DOCUMENTS					
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RA		ADKINS, Joshua N., et al., "Toward a human blood serum proteome: analysis by multidimensional separation coupled with mass spectrometry". The American Society for Biochemistry and Molecular Biology, Inc., MCP Paper (November 15, 2002)			
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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
RA		GYGI, Steven P., "Correlation between protein and mRNA abundance in yeast". Molecular and Cellular Biology (March 1999) 1720-1730.			
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Examiner signature	/Ritesh Agrawal/			Date Considered	01/23/2007

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/760,100
				Filing Date	January 16, 2004
				First Named Inventor	Jonathan C. HELLER et al.
				Art Unit	1641
				Examiner Name	Unassigned
Sheet	5	of	6	Attorney Docket Number	29191-707.501
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
RA		NEVILLE, Padraic, et al., "Generalizable mass spectrometry mining used to identify disease state biomarkers from blood serum". Proteomics (2003) 3:1710-1715.			
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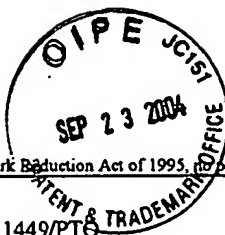
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				First Named Inventor	Jonathan C. HELLER et al.
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				Examiner Name	Unassigned
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RA		VOHRADSKY, J., "Adaptive classification of two-dimensional gel electrophoretic spot patterns by neural networks and cluster analysis". Electrophoresis (1997), 18:2749-2754.			
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Examiner signature	/Ritesh Agrawal/			Date Considered	01/23/2007

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				Application Number	10/760,100
				Filing Date	01/16/2004
				First Named Inventor	Jonathan C. HELLER
				Art Unit	1641
Examiner Name	Not yet assigned				
Sheet	1	of	3	Attorney Docket Number	29191.707.501

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
RA		US-2002/0048777	04/25/2002	Ali et al.	
		US-2002/0127237	09/12/2002	Salceda et al.	
		US-2002/0177140	11/28/2002	Salceda et al.	
		US-2003/0039983	02/27/2003	Sun et al.	
		US-2003/0064377	04/03/2003	Sun et al.	
		US-2003/0078739	04/24/2003	Norton et al.	
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		US-2003/0194739	10/16/2003	Ali et al.	
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		US-6,593,298	07/15/2003	Jackowski et al.	
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		US-6,627,606	09/30/2003	Jackowski et al.	
		US-6,627,607	09/30/2003	Jackowski et al.	
		US-6,627,608	09/30/2003	Jackowski et al.	
		US-6,677,303	01/13/2004	Jackowski et al.	
		US-6,703,366	03/09/2004	Jackowski et al.	
		US-6,756,476	06/29/2004	Jackowski et al.	

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Application Number	10/760,100
Filing Date	01/16/2004
First Named Inventor	Jonathan C. HELLER
Art Unit	1641
Examiner Name	Not yet assigned
Attorney Docket Number	29191.707.501

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ - Number ² - Kind Code ³ (if known)				
RA 		EP 0881494	12/02/1998	Boehringer Mannheim GmbH		X
		WO 00/23111	04/27/2000	Diadexus LLC		
		WO 03/058198	07/17/2003	Ciphergen Biosystems, Inc.		
		WO 03/086445	10/23/2003	Ciphergen Biosystems, Inc.		
		WO 03/089937	10/30/2003	Thermo Finnigan, LLC		
		WO 2004/012588	02/12/2004	The Johns Hopkins University; Ciphergen Biosystems, Inc.		
		WO 2004/013609	02/12/2004	The Johns Hopkins University; Ciphergen Biosystems, Inc.		

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				Application Number	10/760,100
				Filing Date	01/16/2004
				First Named Inventor	Jonathan C. HELLER
				Art Unit	1641
				Examiner Name	Not yet assigned
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Sheet	3	of	3		

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RA		AURIOLA, Seppo et al., "Enhancement of sample loadings for the analysis of oligosaccharides isolated from <i>Pseudomonas aeruginosa</i> using transient isotachopheresis – electrospray – mass spectrometry". <i>Electrophoresis</i> (1998), 19:2665-2676.	
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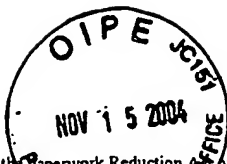
Examiner signature	/Ritesh Agrawal/	Date Considered	01/23/2007
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				Application Number	10/760,100
				Filing Date	01/16/2004
				First Named Inventor	Jonathan C. HELLER
				Art Unit	1641
Examiner Name	Not yet assigned				
Sheet	1	of	1	Attorney Docket Number	29191.707.501

U.S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
RA		US-2004/0153249	08/05/2004	Zhang et al.	
		US-			
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		Country Code ³ - Number ² - Kind Code ⁵ (if known)				
RA		WO 2004/055519 A2	07/01/2004	Hoffmann-La Roche AG		
RA		WO 2004/061407 A2	07/22/2004	Caprion Pharmaceuticals, Inc.		
RA		WO 2004/061410 A2	07/22/2004	Ciphergen Biosystems, Inc.		

Examiner Signature	/Ritesh Agrawal/	Date Considered	01/23/2007
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				Application Number	10/760,100
				Filing Date	January 16, 2004
				First Named Inventor	Jonathan C. Heller
				Art Unit	1631
Examiner Name	Eric S. Dejong				
Sheet	1	of	2	Attorney Docket Number	29191-707.501

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
RA		US-2003/0153007	08-14-2003	Chen, et al.	
RA		US-2005/0059013	03-17-2005	The Johns Hopkins University, et al.	
		US-			
		US-			
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
RA		WO 2003/057014	07-17-2003	John Hopkins University		
RA		WO 2004/030511	04-15-2004	Eastern Virginia Medical School, et al.		
RA		EP 1512970	03-09-2005	Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek TNO		

Examiner Signature	/Ritesh Agrawal/	Date Considered	01/23/2007
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/760,100
				Filing Date	January 16, 2004
				First Named Inventor	Jonathan Heller
				Art Unit	1631
				Examiner Name	Eric S. Dejong
Sheet	2	of	2	Attorney Docket Number	29191-707.501

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RA		CHAMBERS, et al., "Proteomics: A New Approach to the Study of Disease". Journal of Pathology 2000; 192:280-288	
RA		TATAY, Jacob W., "Multiple approaches to data-mining of proteomic data based on statistical and pattern classification methods". Proteomics (2003) 3:1704-1709.	
RA		WANG, Michael Z., et al., "Analysis of human serum proteins by liquid phase isoelectric focusing and matrix-assisted laser desorption/ionization-mass spectrometry". Proteomics (2003), 3:1661-1666.	
RA		WU, Baolin, et al., "Comparison of statistical methods for classification of ovarian cancer using mass spectrometry data". Bioinformatics (2003) 19(13):1636-1643.	
CO-PENDING/PUBLISHED/ISSUED PATENT MATTERS			
RA		ANDEL, Frank III, et al., U.S. Patent Application No. 10/845,773 entitled "Prostate Diagnostic Patterns," filed 05-14-2004 (WSGR Reference No. 29191-719.201)	
RA		US-2004/0236603 published on 11-25-2004, first named inventor: Heller (WSGR Reference No. 29191-707.201)	

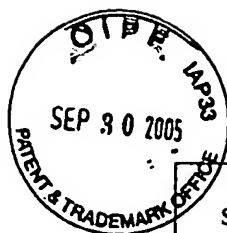
Examiner signature	/Ritesh Agrawal/	Date Considered	01/23/2007
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				Application Number	10/760,100
				Filing Date	01/16/2004
				First Named Inventor	Jonathan C. Heller
				Art Unit	1641
Examiner Name	Not yet assigned				
Sheet	1	of	3	Attorney Docket Number	29191-707.501

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
RA		US-5,652,427	07-29-1997	Whitehouse, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	✓
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
RA		WO 2004/068130 A2	08-12-2004	Mosaïques Diagnostics and Therapeutics AG (DE), et al.		✓
RA		WO 2004/102190	11-25-2004	Europroteome AG (DE), et al.		
RA		WO 2005/011474	02-10-2005	Correologic Systems Inc (US), et al.		
RA		WO 2005/020125	03-03-2005	Beyond Genomics Inc (US), et al.		
		WO 2005/024409	03-17-2005	Mosaïques Diagnostics and Therapeutics AG (DE), et al.		✓

Examiner Signature	/Ritesh Agrawal/	Date Considered	01/23/2007
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				Filing Date	01/16/2004
				First Named Inventor	Jonathan C. Heller
				Art Unit	1641
				Examiner Name	Not yet assigned
Sheet	2	of	3	Attorney Docket Number	29191-707.501

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RA		FUNG, Eric T., et al., "Classification of cancer types by measuring variants of host response proteins using SELDI serum assays," <i>Int. J. Cancer</i> (2005) 115:783-789	
		KAJITA, Yoshihiro, et al., "Clinical Study on Increased Serum Thyroxine-Binding Globulin in Cancerous State," <i>Endocrinol. Japon</i> (1981) 28 (6): 785-791	
		KOO, Edward D., et al., "Amyloid diseases: Abnormal protein aggregation in neurodegeneration," <i>Proc. Natl. Acad. Sci.</i> (August 1990) Vol. 96: 9989-9990	
		KUNDIN, W.D., et al., "Cancer Serum Index: A useful Nonspecific Test as a Parameter in Multimodality Screening and Assessment of Patients With Cancer of the Prostate," <i>The Prostate</i> (1981) 2:207-217	
		LI, JINONG et al., "Detection of prostate cancer using serum proteomics pattern in a histologically confirmed population". <i>The Journal of Urology</i> (May 2004), 171:1782-1787.	
		MOBLEY, J.A., et al., "Monitoring The Serological Proteome: The Latest Modality in Prostate Cancer Detection," <i>The Journal of Urology</i> (July 2004) Vol. 172: 331-337	
		ORNSTEIN, David K., et al., "Serum Proteomic Profiling Can Discriminate Prostate Cancer From Benign Prostates in Men With Total Prostate Specific Antigen Levels Between 2.5 And 15.0 NG/ML," <i>The Journal of Urology</i> (October 2004) Vol. 172: 1302-1305	
		REIXACH, Natalia, et al., "Tissue damage in the amyloidoses: Transthyretin monomers and nonnative oligomers are the major cytotoxic species in tissue culture," <i>PNAS</i> (March 2, 2004) Vol. 101 No. 9: 2817-2822	
		ROBEY, Edwin L., et al., "Cancer Serum Index And Prostatic Acid Phosphatase For Detection Of Progressive Prostatic Cancer," <i>The Journal of Urology</i> (October 1985) Vol. 134: 787-790	
↓		ROSTENBERG, Israel, et al., "Gc Globulin and Prealbumin Serum Levels in Patients With Cancer and Benign Inflammatory Diseases and in Asymptomatic Smokers," <i>Journal of the National Cancer Institute</i> (February 1997) Vol. 62 No. 2:299-300	

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				Filing Date	01/16/2004
				First Named Inventor	Jonathan C. Heller
				Art Unit	1641
				Examiner Name	Not yet assigned
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RA		SASSI, Alexander P., et al., "An automated, sheathless capillary electrophoresis-mass spectrometry platform for discovery of biomarkers in human serum". <i>Electrophoresis</i> (2005), 26: pages unknown.	
		SCHWEIGERT, Florian J., et al., "Transthyretin, a Biomarker for Nutritional Status and Ovarian Cancer," <i>Cancer Research</i> (February 1, 2005) 65 (3):1114	
		THOMPSON, Ian M., et al., "Prevalence of Prostate Cancer among Men with a Prostate-Specific Antigen Level ≥ 4.0 ng per Milliliter," <i>The New England Journal of Medicine</i> (May 27, 2004) Vol. 350 No. 22: 2239-2246	
		VEJDA, Susanne, et al., "Plasma from Cancer Patients Featuring a Characteristic Protein Composition Mediates Protection against Apoptosis," <i>Molecular & Cellular Proteomics</i> (2002):387-393	
		VILLANUEVA, Josep et al., "Serum peptide profiling by magnetic particle-assisted, automated sample processing and MALDI-TOF mass spectrometry". <i>Anal. Chem.</i> (March 15, 2004), 76(6):1560-1570.	
		WARD, A. Milford, et al., "Acute Phase Reactant proteins in Prostatic Cancer," <i>British Journal of Urology</i> (1977), 49: 411-418	
		ZHANG, Zhen, et al., "Three Biomarkers Identified from Serum Proteomic Analysis for the Detection of Early Stage Ovarian Cancer," <i>Cancer Research</i> (August 15, 2004) 64:5882-5890	
		CO-PENDING/PUBLISHED/ISSUED PATENT MATTERS	
		HELLER, et al., U.S. Patent Application No. 11/178,245, entitled "Biological Patterns For Diagnosis And Treatment Of Cancer," filed 07-08-2005 (WSGR Reference No. 29191-729.201)	
		STULTS, et al., U.S. Patent Application No. 11/178,262, entitled "Systems and Methods for Discovery and Analysis of Markers," filed 07-08-2005 (WSGR Reference No. 29191-707.502)	

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				Application Number	10/760,100
				Filing Date	01/16/2004
				First Named Inventor	Heller
				Art Unit	1631
				Examiner Name	Dejong
				Attorney Docket Number	29191.707.501
Sheet	1	of	1		

U.S. PATENT DOCUMENTS

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